

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

**APPLICANT:** Peter C. Meltzer, et al.

**SERIAL NO.** Cont. of USSN 09/568,106

**EXAMINER:** D. Jones

**FILED:** Herewith

**GROUP:** 1619

**FOR:** DOPAMINE TRANSPORTER IMAGING AGENTS

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

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**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Label No. **EL789 782 509 US** service under 37 CFR 1.10, on October 11, 2001 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

  
Donna M. Tomaso

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**PRELIMINARY AMENDMENT**

Please amend the above-identified application as follows:

**IN THE SPECIFICATION:**

Please replace the Title of the Invention with

-- BOAT TROPANES--

After the title of the invention, please insert

--This is a continuation application of application number 09/568, 106, filed May 10, 2000, which is a continuation of provisional application 60/133,761 filed May 12, 1999.

#### STATEMENT OF GOVERNMENT SUPPORT

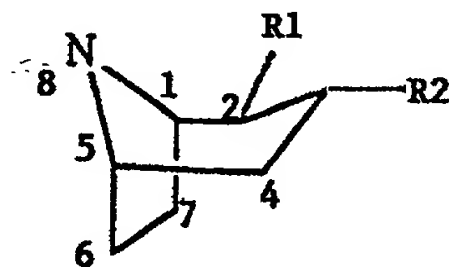
This invention was made with government support under Grant Numbers DA06303 and DA11558 awarded by the NIH/NIDA. The government has certain rights in the invention.--

#### IN THE CLAIMS:

Please cancel claims 1-21.

Please add the following new claims:

--1. A compound having the following structural formula:



wherein  $R_1$  is  $\alpha$  or  $\beta$  and is selected from  $\text{COOR}^a$ ,  $\text{COR}^a$ , and  $\text{CON}(\text{CH}_3)\text{OR}^a$ ;

$R_2$  is  $\alpha$  and is selected from  $\text{C}_6\text{H}_4\text{X}$ ,  $\text{C}_6\text{H}_3\text{XY}$ ,  $\text{C}_{10}\text{H}_7\text{X}$ , and  $\text{C}_{10}\text{H}_6\text{XY}$ ;

$R^a$  is a  $\text{C}_1 - \text{C}_5$  alkyl;

X and Y are independently selected from  $R^a$ , H, Br, Cl, I, F, OH, and  $\text{OCH}_3$ ;

wherein the compound is in the 1R or 1S configuration;

and wherein  $\text{N}_8$  is substituted with either H or  $\text{CH}_3$ .

2. The compound according to claim 1, wherein R<sup>a</sup> is methyl.
3. The compound according to claim 1, wherein R<sup>a</sup> is ethyl.
4. The compound according to claim 1, wherein R<sup>a</sup> is propyl.
5. The compound according to claim 1, wherein R<sup>a</sup> is isopropyl.
6. The compound according to claim 1 selected from the group consisting of:
  - a. (1*R*)-2β-methoxycarbonyl-3α-(3,4-dichlorophenyl)-8-azabicyclo[3.2.1]octane;
  - b. (1*R*)-2β-methoxycarbonyl-3α-(4-fluorophenyl)-8-azabicyclo[3.2.1]octane;
  - c. 2β-(Carboxylic acid)-3α-(4-fluorophenyl)tropane;
  - d. 2β-(Carboxylic acid)-3α-(3,4-dichlorophenyl)tropane;
  - e. 2β-Methoxymethylcarbamoyl-3α-(4-fluorophenyl)tropane;
  - f. 2β-Methoxymethylcarbamoyl-3α-(3,4-dichlorophenyl)tropane;
  - g. 2β-(1-Propanoyl)-3α-(4-fluorophenyl)-tropane;
  - h. 2β-(1-Propanoyl)-3α-(3,4-dichlorophenyl)tropane;
  - i. 2β-(1-Propanoyl)-3α-(4-fluorophenyl)nortropane;
  - j. 2β-(1-Propanoyl)-3α-(3,4-dichlorophenyl)nortropane;
  - k. 2β-(Methoxymethylcarbamoyl-3α-(4-fluorophenyl)nortropane;
  - l. 2β-(Carboxymethoxymethylamide)-3α-(4-fluorophenyl)nortropane;

- m. (1*R*)-N-Methyl-2 $\beta$ -Methoxycarbonyl-3 $\alpha$ -(3,4-dichlorophenyl)-8-aza-bicyclo[3.2.1]octane;
- n. (1*R*)- N-Methyl-2 $\beta$ -Methoxycarbonyl-3 $\alpha$ -(4-fluorophenyl)-8-azabicyclo[3.2.1]octane;
- o. (1*R*)-N-Methyl-2 $\beta$ -methoxycarbonyl-3 $\alpha$ -(2-naphthyl)-8-azabicyclo[3.2.1]octane;
- p. (1*R*)-2 $\beta$ -Methoxycarbonyl-3 $\alpha$ -(2-naphthyl)-8-azabicyclo[3.2.1]octane.--

REMARKS

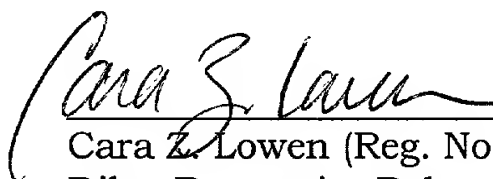
It is respectfully submitted that the present application is in condition for allowance.

Should the Examiner wish to discuss the above amendment made herein, the undersigned attorney would appreciate the opportunity to do so. Thus the Examiner is hereby invited to call the undersigned, collect at the number shown below.

Respectfully submitted,

Date: Oct. 11, 2001

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Cara Z. Lowen (Reg. No.: 38,227)  
Dike, Bronstein, Roberts & Cushman  
Intellectual Property Practice Group of  
EDWARDS & ANGELL, LLP  
P.O. Box 9169  
Boston, MA 02209  
(617) 439-4444